VCL Publications

Vegetation Canopy Lidar (VCL)
Publications and Resources
(links directly to the University of Maryland Vegetation Canopy Lidar resources)

Publications

- Estimation of Tropical Forest Structural Characteristics Using Large-footprint Lidar.

Jason Drake, Ralph Dubayah, David Clark, Robert Knox, J. Bryan Blair, Michelle Hofton, Robyn Chazdon, John Weishampel and Steve Prince.

Remote Sensing of Environment. In press.

- Canopy topography of an old-growth tropical rainforest landscape.

John Weishampel, J. Bryan Blair, Ralph Dubayah, David Clark and Robert Knox.

Selbyana 21: 79-87. 2000.

- Lidar Remote Sensing for Forestry.

Ralph Dubayah and Jason Drake

Journal of Forestry 98: 44-46. 2000.

- Land surface characterization
using lidar remote sensing.

Ralph Dubayah, Robert Knox,
Michelle Hofton, J. Bryan Blair, and Jason Drake

In: M. Hill and R. Aspinall, [eds.] Spatial Information
for Land Use Management. International Publishers Direct, Singapore.
2000.

- Multifractal analysis of canopy
height measures in a longleaf pine savanna.

Jason Drake and John Weishampel

Forest Ecology and Management
128: 121-127. 2000.

- LVIS
Looks Down from Above. What?s Up?

Jason Godin
The Newsletter of the International Canopy Network,
Summer 2000.

- Volumetric lidar return patterns from an old-growth tropical
rainforest canopy.

John Weishampel, J. Bryan
Blair, Robert Knox, Ralph Dubayah and David Clark.

International Journal of
Remote Sensing 21: (2) 409-415. 2000.

- Lidar remote sensing of sub-canopy topography.

Laura Rocchio

M.A. Thesis. Department of Geography. University of Maryland, College Park. 2000.
101 pp.

- Recovery of forest canopy heights using large-footprint lidar.

Birgit Peterson

M.A. Thesis. Department of Geography. University of Maryland, College Park. 2000.
58 pp.

- Modeling
laser altimeter return waveforms over complex vegetation using high resolution
elevation data

J. Bryan Blair and Michelle Hofton

Geophysical Research Letters,
26, 2509-2512, 1999.

- The Laser Vegetation Imaging Sensor (LVIS): a medium-altitude, digitization only, airborne laser altimeter for mapping vegetation and topography

J. Bryan Blair, David Rabine and Michelle Hofton

ISPRS Photogrammetry and Remote Sensing, 54,115-122, 1999.

- Characterizing and modeling spatial patterns of a longleaf pine savanna.

Jason Drake

M.S. Thesis. Biology Department. University of Central Florida, Orlando. 1998. 112 pp.

- The Vegetation Canopy Lidar Mission

Ralph Dubayah, J. Bryan Blair, Jack Bufton, David Clark, J. JaJa, Robert Knox, Scott Luthcke, Steve Prince, and John Weishampel Pages 100-112. In: Land Satellite Information in the Next Decade II: Sources and Applications. American Society for Photogrammetry and Remote Sensing, Bethesda, MD. 1997.